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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,903	01/17/2007	Adegboyega K. Oyelere	26505-502 NATL	5426
30623 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C A'TIN: PATENT INTAKE CUSTOMER NO. 30623			EXAMINER	
			PESELEV, ELLI	
ONE FINANCIAL CENTER BOSTON, MA 02111		ART UNIT	PAPER NUMBER	
			1623	
			MAIL DATE	DELIVERY MODE
			08/20/2008	DADED

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/577,903	OYELERE ET AL.				
Examiner	Art Unit				
Elli Peselev	1623				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of them may be available under the provisions of 37 GFL 174(g), In no event, however, may a reply be timely filed after SIX (f) MCNTHS from the making date of the communication. Figure 10 MCNTHS from the making date of the communication of the state o	m.
Status	
1) Responsive to communication(s) filed on	
2a) This action is FINAL . 2b) This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits i	s
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
4) Claim(s) 1-25 is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>1-25</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9)☐ The specification is objected to by the Examiner.	
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121((d)
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) All b) Some * c) None of:	
 Certified copies of the priority documents have been received. 	
Certified copies of the priority documents have been received in Application No	
3. Copies of the certified copies of the priority documents have been received in this National Stage	
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the certified copies not received.	

1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) X Information Disclosure Statement(s) (FTO/SE/08)

Paper No(s)/Mail Date 8/29/07, 10/11/07.

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. __

5) Notice of Informal Patent Application 6) Other:

Attachment(s)

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The abstract of the disclosure is objected to because it has not been presented in the proper domestic form. Correction is required. See MPEP § 608.01(b).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-25 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1-16 and 23-26 of copending Application No. 10/579,706. Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of the claimed compounds overlaps with the scope of compounds claimed in the copending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 1-25 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for pharmaceutically acceptable salts and esters of

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the claimed compounds, does not reasonably provide enablement for prodrugs thereof.

The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

A conclusion of lack of enablement means that, based on the evidence regarding each of the factors below, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation.

(A) The breadth of the claims.

The claims encompass all possible prodrugs of the claimed compounds.

(B) The level of predictability in the art.

The properties of any given prodrug cannot be predicted. For example, the absorption or solubility of the compound can be affected. It requires a good deal of experimentation for each individual compound to prepare a prodrug thereof possessing all the desirable properties.

(C) The amount of direction provided by the inventor.

On page 12 of the specification the inventor provides examples of the prodrugs which include, but are not limited to, acetate, formate and benzoate derivatives of alcohol and amine functional groups. However, note that acetate, formate and benzoate are esters of the claimed compounds and no specific amine functional groups have been provided.

(D) The existence of working examples.

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There are no specific examples of preparing and using prodrugs.

(E) The quantity of experimentation needed to make or use the invention based on the content of the disclosure.

Because there is no way to predict a priori which specific prodrugs of the claimed compounds will have the desired properties and activity, it would take an enormous amount of trial and error to prepare and test various possible prodrugs.

Claims 15-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

A conclusion of lack of enablement means that the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation.

Claim 15 is directed to the treatment of a microbial infection.

Claim 16 is directed to the treatment of a fungal infection.

Claim 17 is directed to the treatment of a parasitic disease.

Claim 18 is directed to the treatment of a proliferative disease.

Claim 19 is directed to the treatment of a viral disease

Claim 20 is directed to the treatment of an inflammatory disease.

Claim 21 is directed to the treatment of a gastrointestinal motility disorder.

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The claimed compounds are directed to bifunctional maclolide heterocyclic compounds. While macrolides, such as erythromycins, are known as antibacterial agents, not all macrolides possess anti-fungal, anti-parasitic, anti-viral, anti-proliferative, anti-inflammatory activity or are effective for the treatment of gastrointestinal disorders. Further, the claimed compounds are structurally significantly different from any known macrolides. The specific provides no examples showing any activity of the claimed compounds. It will require further experimentation to determine which specific claimed compounds possess which, if any, activity.

Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 23 is directed to synthesizing a compound according to claim 1. However, no synthesis steps have been set forth. Therefore, claim 23 is indefinite and incomplete.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 8.00-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elli Peselev /Elli Peselev/ Primary Examiner, Art Unit 1623